

We can say,

$$A = \{a, b, c, d, e, b, a, e\}$$

$$= \{a, b, c, d, e\}$$

This is because, if one or more elements of a set are repeated, the set remains the same.

### Exercise - 10 (B)

① If set  $A = \{2, 3, 4, 5, 6\}$ , state ~~which~~ which one is 'true' and which are 'false':-

i)  $2 \in A$ . True                      iii)  $3, 4, 7 \in A$ . False

ii)  $5, 6 \in A$ . True                      iv)  $2, 8 \in A$ . False

② If set  $B = \{4, 6, 8, 10, 12, 14\}$  state which are correct and which are wrong:-

i)  $5 \in B$ . wrong                      iv)  $9 \in B$ . Correct  
Correct statement:  $5 \notin B$                       Correct statement:  $9 \notin B$

ii)  $12 \in B$ . Correct

iii)  $14 \in B$ . Correct

v)  $B$  is the set of even no.s between 2 and 16. Correct

vi) 4, 6 and 10 are the members of the set  $B$ . Correct

③ State whether true or false:-

i) Sets  $\{4, 9, 6, 2\}$  and  $\{6, 2, 4, 9\}$  are not the same.

False

ii) Sets  $\{0, 1, 3, 9, 4\}$  and  $\{4, 0, 1, 3, 9\}$  are the same.

True

iii) Sets  $\{0, 5, 4\}$  and  $\{5, 4, 4, 5\}$  are not the same.

False

iv) Sets  $\{8, 3\}$  and  $\{3, 3, 8\}$  are the same. True

v) Collection of vowels used in the word 'ALLAHABAD' forms a set. True

vi) If  $P$  is the set of letters in the word 'ROOP'; then  $P = \{p, o, r\}$ . True

vii) If  $M$  is the set of letters used in the word 'MUMBAT', then;  $M = \{m, u, b, a, i\}$ . True

C.W  
7.7.21

④ write the set containing:

i) The ~~first~~ first five counting no.s.

$\{1, 2, 3, 4, 5\}$

ii) the ~~two~~ three types of angle.

$\{acute-angle, right-angle, obtuse-angle\}$

iii) The three types of triangles.

{ Equilateral triangle, isosceles triangle, scalene triangle }

iv) The members of your family.

{ Preeti, Shruti, Bobby, Runu, Jitu, Silu, Milu, Ditu, Nupur, Payal, Khushi, Ghungur, Isha, Krish, Dev, Anshu, Gudu, Krishna, Montu, Bou }

v) The first 6 consonants of English Alphabet.

{ ~~o~~ b, c, d, f, g, h }

vi) The first four vowels of English Alphabet.

{ a, e, i, o }

vii) The names of three Prime Ministers of India.

{ Indira Gandhi, Atal Bihari Vajpayee, Dr. Manmohan Singh }

Q. 1) i) { 3, 8, 5, 15, 12, 7 }

Elements are -

3, 5, 7, 8, 12 and 15

ii) { c, m, n, o, s }

Elements are -

c, m, n, o and s.

6. i) write the set of letters used in the word 'BHOPAL'.

$$L = \{b, h, o, p, a, l\}$$

ii) Write the set of vowels used in the word 'BENGAL'.

$$V = \{e, a\}$$

iii) write the set of consonants used in the word 'HONG-KONG'.

$$C = \{h, n, g, k\}$$

### Extra Questions -

Q. Make a set containing the consonant letters of the word 'BHUBANESWAR'.

Ans.  $\{b, h, n, s, w, r\}$